



**TRIVALENCE**

# TriVALOY 12EG (U,R)

Headquarters  
3001 Maxx Road  
Evansville, IN 47711  
800.209.2517

trivalencetechnologies.com

## Polycarbonate + ABS

### General Information

#### Product Description

Polycarbonate + ABS, extrusion and blow molding grade.

#### FEATURES

- Low Flow
- Great Impact
- Chemical Resistant
- ROHS/REACH Compliant

#### ADDITIONAL FORMULAS

- Added Release "R"
- Added UV "U"

#### COLOR

- All
- Opaque/Translucent

### General

#### Typical Applications

-Appliance, lawn & garden, automotive, electronics, medical devices, spools, housings

#### Processing Method

-Injection/Extrusion

#### Form(s)

-Pellets

#### Availability

-North America, Europe, Asia, Latin America

### ASTM / ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (230°C/3.8 kg)	4	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.7	%	TVT Internal
Outdoor Suitability (QUV)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	7500	psi	ASTM D638
Tensile Elongation, brk	100	%	ASTM D638
Flexural Modulus	300000	psi	ASTM D790
Gardner Impact	320	in-lbs	ASTM D5420
Notched Izod Impact	10	ft-lbs/in	ASTM D256
Rockwell Hardness	117	R-Scale	ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	252	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	220	°F	ASTM D648
Vicat Softening Temperature	248	°F	ASTM D1525
CLTE - Flow	4.1E-5	in/in/°F	ASTM E831
Flammability	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 TVT Internal
Recommended Processing Guidance			
Drying Temperature	180 to 215	°F	
Drying Time	2 to 4	Hours	
Suggested Max Moisture	0.02	%	
Processing Melt Temperature	480 to 540	°F	
Mold Temperature	135 to 185	°F	

<sup>1</sup> Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.